Application Appli

LOCATION SKETCH

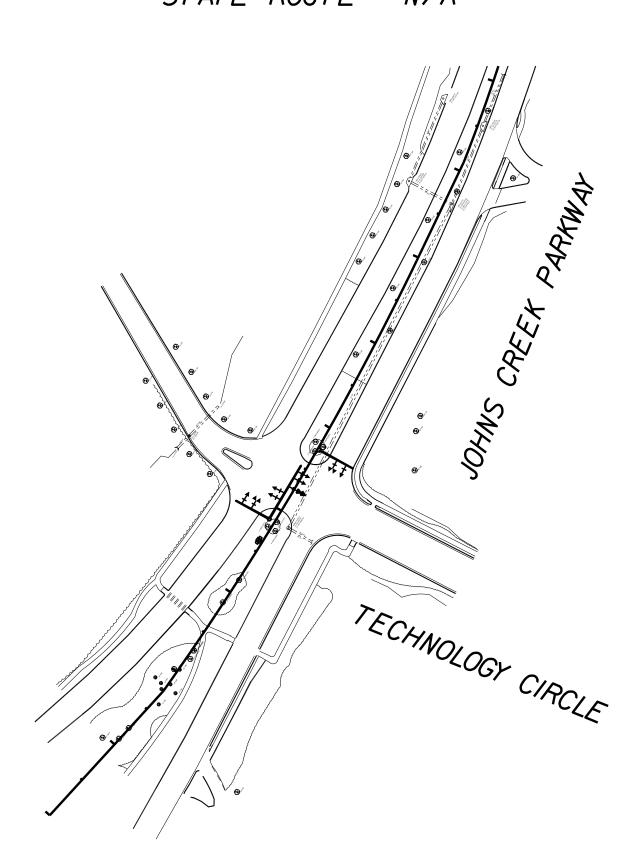
DEPARTMENT OF PUBLIC WORKS CITY OF JOHNS CREEK

NEW CONSTRUCTION

JOHNS CREEK PARKWAY AT TECHNOLOGY CIRCLE TRAFFIC SIGNAL DESIGN

FEDERAL ROUTE * N/A

STATE ROUTE * N/A



Kimley » Horn

Engineering, Planning, and Environmental Consultants
Suite 450, 2 Sun Court
Peachtree Corners, Georgia 30092

PREPARED BY:

DESIGN



DRAFT PLANS COMPLETED 04-04-2016
REVISIONS 05-31-2016

DRAFT PLANS COMPLETED 04-04-2016

DRAFT PLANS COMPLET

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.



THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04,102.05, AND 104.03 OF THE SPECIFICATIONS.

Know what's **below**.

Call before you dig.

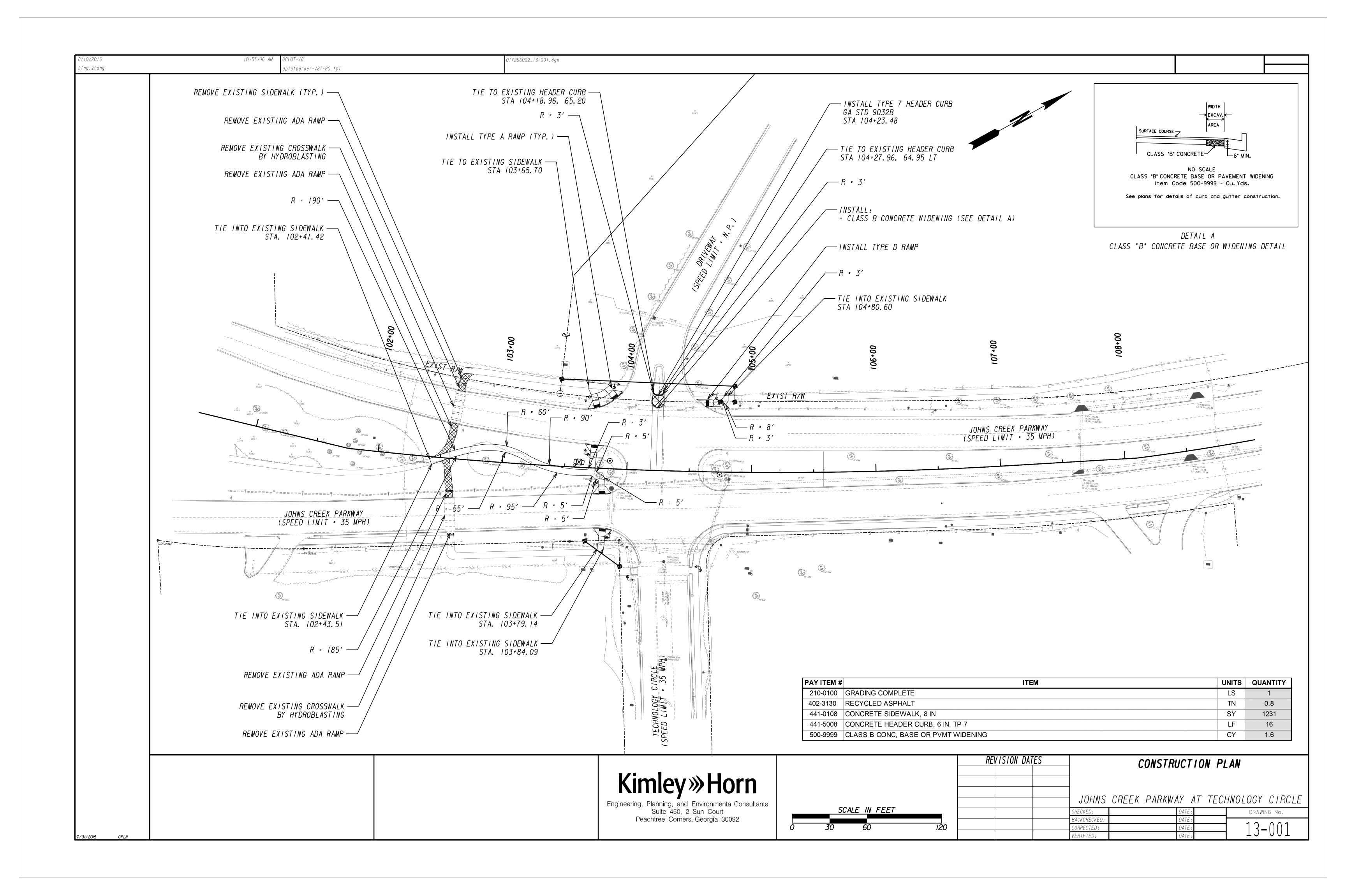


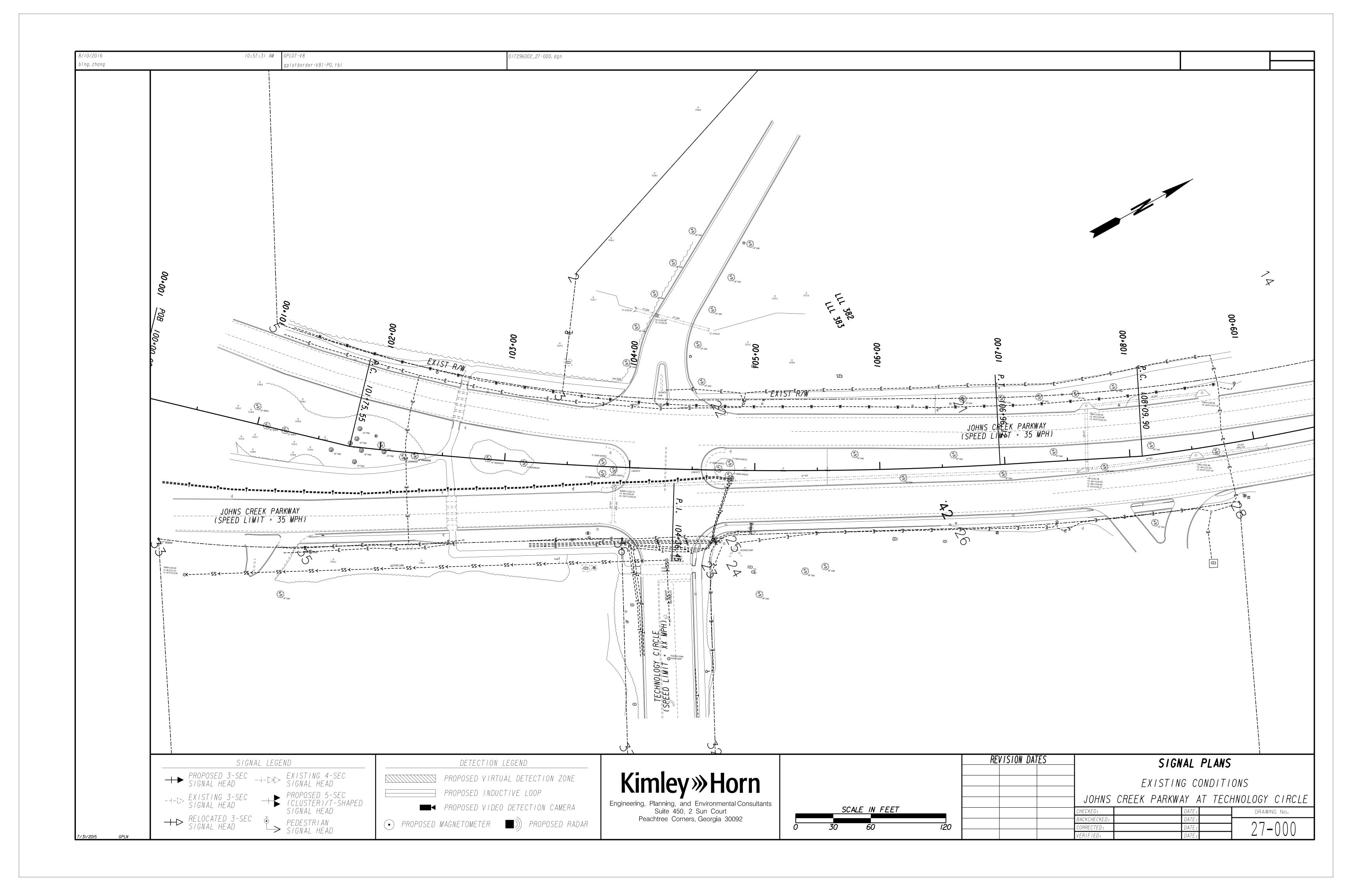
01-001

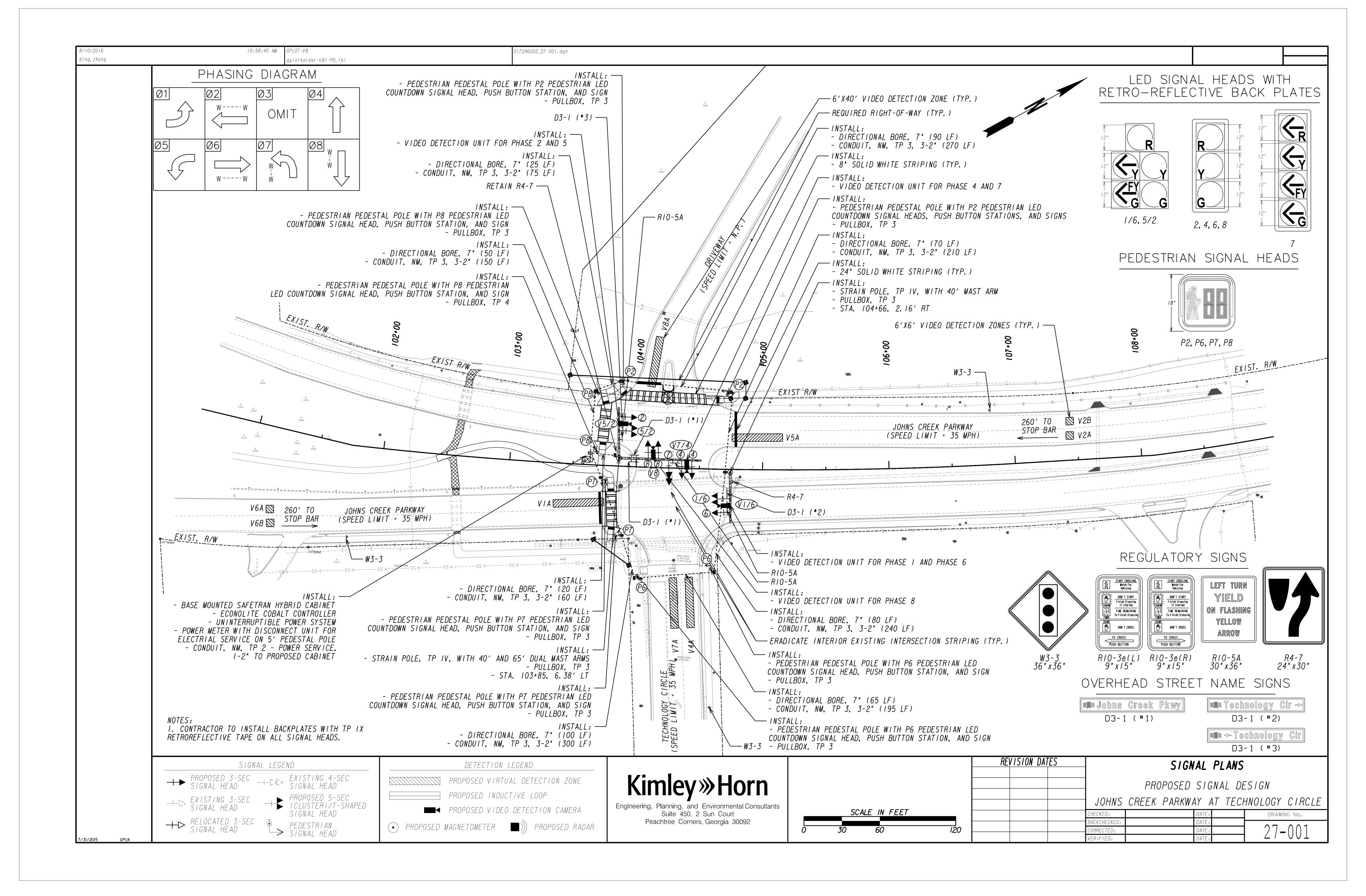
17296002_04-001.dgn bing.zhang gplotborder-V8i-PO.tbl TRAFFIC SIGNAL GENERAL NOTES ITS GENERAL NOTES I. ALL WORK. MATERIALS. AND EQUIPMENT SHALL CONFORM TO THE GEORGIA 13. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL MONTHLY POWER AND I. ALL WORK. MATERIALS. AND EQUIPMENT SHALL CONFORM TO THE GEORGIA DEPARTMENT DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR COMMUNICATION SERVICE TO THE TRAFFIC SIGNAL INSTALLATION AND SUPPORT DEVICES. OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF CONSTRUCTION OF TRANSPORTATION SYSTEMS" CURRENT EDITION AND CITY OF UNTIL THE NEW TRAFFIC SIGNAL INSTALLATION HAS SATISFACTORILY COMPLETED A TEST TRANSPORTATION SYSTEMS" CURRENT EDITION AND CITY OF JOHNS CREEK JOHNS CREEK SPECIFICATIONS. PERIOD OF UNINTERRUPTED OPERATION. FOR 30 DAYS. UPON COMPLETION OF THE TEST SPECIFICATIONS. PERIOD. THE CONTRACTOR WILL COMPLETE A TRANSFER OF UTILITY COST TO THE CITY OF 2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND TEMPORARY JOHNS CREEK. 2. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS CONSTRUCTION EASEMENTS FROM THE CITY PRIOR TO START OF CONSTRUCTION. OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION. 14. PULLBOXES INSTALLED IN SIDEWALK SHALL BE FLUSH WITH SIDEWALK. 3. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY CONDITIONS 3. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITIES RESULTING 15. ALL EXISTING, NON-JOINT USE SIGNAL POLES THAT ARE NOT SHOWN AS BEING THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND FROM CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT CONTRACTORS EXPENSE. MAINTAINED IN PROPOSED SIGNAL LAYOUTS SHALL BE REMOVED. ALL EXISTING SIGNAL A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES. HEADS AND CABINET EQUIPMENT SHALL BE REMOVED. 4. THE CONTRACTOR SHALL ADHERE TO THE CALL BEFORE YOU DIG LAW BY 4. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW CALLING THE UNDERGROUND PROTECTION CENTER AT GEORGIA8II BEFORE 16. MAST ARMS AND STRAIN POLES SHALL BE PAINTED PER CITY OF JOHNS CREEK TRAFFIC SIGNAL POLFS PRIOR TO ORDERING. AT THE DISCRETION OF THE ENGINEER. BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY SPECIFICATIONS (ANTIQUE BRONZE). MINOR SHIFTS (UP TO A MAXIMUM OF 5 FEET), IN LOCATION OF NEW SIGNAL POLES, ARE COMPANIES TO PROVIDE APPROPRIATE CLEARANCES FROM UTILITIES. ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. CONTRACTOR SHALL ENSURE THAT MINOR 17. INSTALL (4) EA. 3" NONMETAL CONDUIT AND (2) EA. I" NONMETAL CONDUIT LOCATION SHIFTS DO NOT REQUIRE AN INCREASE IN MAST ARM LENGTH AND ARE WITHIN 5. WITHIN 24 HOURS. THE CONTRACTOR SHALL REPAIR ANY EXISTING CONDUIT. BETWEEN THE CONTROL CABINET AND ITS ADJACENT PULLBOX. INSTALL (3) EA. 2" THE EXISTING RIGHT-OF-WAY. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE CABLE. OR PIPE. THAT IS DAMAGED BY ANY WORK PERFORMED AS PART OF THIS NONMETAL CONDUIT AND (2) EA. I" NONMETAL CONDUIT BETWEEN EACH STEEL STRAIN MAINTAINED, PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PROJECT AT NO ADDITIONAL COST. POLE (WITH OR WITHOUT MAST ARM) AND ITS ADJACENT PULLBOX. INSTALL (2) EA. 2" PLANS. NONMETAL CONDUIT AND (I) EA. I" NONMETAL CONDUIT BETWEEN PEDESTAL POLE AND ITS 6. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TO DISTRICT AND CITY A ADJACENT PULLBOX. 5. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING COMPLETE AND WORKING FIBER OPTIC SIGNAL AND ITS INTERCONNECT SYSTEM. CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL INCLUDING BOTH DATA AND VIDEO NETWORK TRAFFIC. ALL REQUIRED FIBER 18. ALL CONCRETE TESTING IS TO BE DONE BY THE CONTRACTOR WITH A 7, 14, AND 28 AND/OR CONTROL SYSTEM ADJUSTMENTS. INCLUDING TEMPORARY SUPPORT POLE OPTIC AND ETHERNET DEVICES, EQUIPMENT, OR INCIDENTALS NOT SHOWN AS DAY BREAK. ALL RESULTS WILL BE TURNED OVER TO THE CITY. POLES CAN BE MOUNTED LOCATIONS(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH DIRECT PAY ITEMS. BUT RECOMMENDED BY THE FIBER MANUFACTURER OR AFTER 7 DAYS OF HARDENING. ARMS MAY BE INSTALLED WHEN PSI IS GREATER THAN INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE SUPPLIER, SHALL BE COST ABSORBED. TESTING, BURN-IN, AND ACCEPTANCE OF *3000.* ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE. THE FIBER OPTIC SYSTEM. AND ALL OTHER ITS COMPONENTS SHALL CONFORM AND BE PROVIDED AS SPECIFIED BY THE CURRENT EDITION OF GDOT 6. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE CITY OF JOHNS CREEK SPECIFICATIONS. PRIOR TO FINAL ACCEPTANCE. 7. WHERE EXISTING WIRE, CABLE, OR EQUIPMENT IS BEING REPLACED OR 7. THE COST OF REMOVAL OF EXISTING EQUIPMENT SHALL BE INCIDENTAL TO THE COST DISTURBED. ALL PREPARATORY WORK SHALL BE COMPLETED BEFORE OF PROJECT. WHEN REMOVED. EXISTING EQUIPMENT SHALL BE DELIVERED AND UNLOADED GEORGIA811 REPLACEMENT OR DISTURBANCE IS MADE. NO EQUIPMENT SHALL BE BY THE CONTRACTOR TO THE CITY OF JOHNS CREEK SIGNAL SHOP. DISCONNECTED UNTIL PROPER REPLACEMENTS ARE AVAILABLE AND ALL NECESSARY PREPARATIONS HAVE BEEN MADE. THE COMMUNICATIONS SHALL NOT 8. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT. SEE STRAIN POLE AND **Utilities Protection Center, Inc.** BE DOWN FOR MORE THAN 24 HOURS. MAST ARM POLE FOUNDATION SHEET. Know what's **below**. 8. PRIOR TO ORDERING ANY CABLES. THE CONTRACTOR SHALL VERIFY ON SITE 9. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL Call before you dig. THE LENGTH OF EACH CABLE THAT IS REQUIRED. TAKING ALL NECESSARY INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE GDOT MEASUREMENT. SPECIFICATION AND PER CITY OF JOHNS CREEK REQUIREMENTS. 9. DETECTABLE MARKING TAPE SHALL BE FURNISHED AND INSTALLED WITH ALL 10. THE CONTRACTOR SHALL REPLACE IN KIND AND SIZE, AT NO SEPARATE EXPENSE TO THE CITY, ANY BARRIER WALL, FENCE, DITCH PAVING, CURBING, SIDEWALK, GUTTER, CONDUIT. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED CONDUIT. SLOPE PAVEMENT, SIGNS, GUARDRAILS, LANDSCAPING, GRASSINGS, UTILITY SERVICE LINES. STORM DRAIN PIPES. MASONRY WALLS AND PAVING THAT IS REMOVED. DAMAGED OR DESTROYED. DUE TO CONTRACTOR'S ACTIVITY. IO. ALL FIBER JUMPERS ARE INCIDENTAL TO THE SWITCHES AND FDC. II. ALL SPLICES OF FIBER OPTIC CABLE UNDER THIS CONTRACT SHALL BE II. ALL TRAFFIC MARKING. SYMBOLS OR STRIPING TO BE REMOVED AND/OR REPLACED SHALL BE PAID FOR IN THE TRAFFIC CONTROL LUMP SUM ITEM. FUSION SPLICES, UNLESS OTHERWISE SPECIFICALLY NOTED IN EACH INSTANCE OR DIRECTED BY THE TRAFFIC OPERATIONS ITS MANAGER. NO IN-LINE SPLICES 12. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH MODIFYING SHALL BE MADE IN ANY CABLE. EXISTING AND ESTABLISHING NEW POWER AND COMMUNICATIONS SERVICES FOR TRAFFIC SIGNAL. VIDEO DETECTION SYSTEMS AND/OR CCTV CAMERAS ON THIS PROJECT. IF A 12. TESTING FOR ITEMS COVERED UNDER THE 935, 936, & 939 UTILITY TRANSFORMER IS REQUIRED FOR TRAFFIC SIGNAL EQUIPMENT. IT IS THE SPECIFICATIONS ARE INCLUDED IN THE COST OF THE ITEM. RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE AS PART OF THEIR BID PRICE, FOR THAT TRAFFIC SIGNAL INSTALLATION IF THE RESPECTIVE UTILITY REQUIRES PAYMENT FOR INSTALLATION. REVISION DATES GENERAL NOTES Engineering, Planning, and Environmental Consultants Suite 450, 2 Sun Court Peachtree Corners, Georgia 30092 DRAWING No. ACKCHECKE.

7/31/2015

04-001







017296002_27-002.dgn bing.zhang gplotborder-V8i-PO.tbl

LIST OF MATERIALS FOR TRAFFIC SIGNAL INSTALLATION

LOCATION: JOHNS CREEK PARKWAY AT TECHNOLOGY CIRCLE SIGNAL DESIGN

DEPARTMENT OF PUBLIC WORKS CITY OF JOHNS CREEK *FOR INFORMATIONAL PURPOSES ONLY * MATERIALS

PAY ITEMS

ITEM	UNITS	QUANTITY
CONTROLLER CABINET ASSEMBLY		
ECONOLITE COBALT C CONTROLLER	EA	1
SAFETRAN HYBRID CABINET	EA	1
SWITCH PACK	EA	14
DC ISOLATOR	EA	3
2010 CONFLICT MONITOR, EXTENDED FEATURES, ETHERNET	EA	1
SURGE PROTECTOR	EA	1
POWER METER & DISCONNECT UNIT	EA	1
UNINTERRUPTIBLE POWER SYSTEM (PER CITY OF JOHNS CREEK SECTION 925JC SPECIAL PROVISION)	EA	1
332A PREFABRICATED CONTROLLER CABINET BASE	EA	1
LOOP/PED LEAD-IN WIRE (3 PAIR SHIELDED, TWISTED/1000 FT)	REEL	1
SIGNAL CABLE (14 AWG) - 7 CONDUCTOR	REEL	2
ONE-WAY, 3-SECTION (R,Y,G), 12" INCANDESCENT LOOK LED SIGNAL HEAD, PLASTIC	EA	6
ONE-WAY, 4-SECTION (Ra,Ya,FYa,Ga), 12" INCANDESCENT LOOK LED SIGNAL HEAD, PLASTIC	EA	1
ONE WAY, 5-SECTION (R, Y, Ya, FYa, G, Ga), BIMODAL, 12" INCANDESCENT LOOK LED SIGNAL HEAD, PLASTIC	EA	2
REFLECTIVE BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EA	6
REFLECTIVE BACKPLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD	EA	1
REFLECTIVE BACKPLATE FOR ONE-WAY, 5-SECTION, BIMODAL, 12" SIGNAL HEAD	EA	2
ONE-WAY, 1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP	EA	8
PEDESTRIAN PUSH BUTTON STATION, w/ BUTTON, SIGN, AND ADAPTER FOR SIGN	EA	8
HARDWARE FOR MAST ARM MOUNTING	EA	9
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	8
PEDESTAL POLE, 5 FT, COMPLETE w/ BASE	EA	1
PEDESTAL POLE, 10 FT, COMPLETE w/ BASE	EA	8
PULLBOX, PB-3	EA	8
R10-5A, LEFT TURN ON FLASHING YELLOW ARROW SIGN	EA	3
MISC MATL TO COMPLETE INSTALLATION	LUMP	-

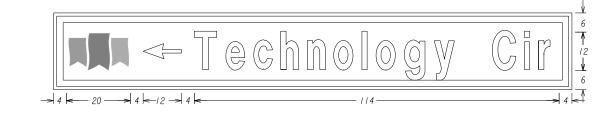
PAY ITEM #	ITEM	UNITS	QUANTITY
150-1000	TRAFFIC CONTROL -	LUMP	-
634-1200	RIGHT OF WAY MARKERS	EA	6
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	5
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	27
636-1045	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 11	SF	112
636-2070	GALVANIZED STEEL POSTS, TP 7	LF	13
636-2080	GALVANIZED STEEL POSTS, TP 8	LF	43
639-3004	STEEL STRAIN POLE, TYPE IV, WITH 40' MAST ARM	EA	1
639-3004	STEEL STRAIN POLE, TYPE IV, WITH DUAL 40' AND 65' MAST ARMS	EA	1
647-1000	TRAFFIC SIGNAL INSTALLATION	LUMP	1
647-2150	PULLBOX, PB-4	EA	1
653-1704	THERMOPLASTIC SOLID TRAFFIC STRIPE, 24 IN, WHITE	LF	75
653-1804	THERMOPLASTIC SOLID TRAFFIC STRIPE, 8 IN, WHITE	LF	625
682-6222	CONDUIT, NONMETAL, TYPE 2, 2 IN	LF	10
682-6233	CONDUIT, NONMETAL, TYPE 3, 2 IN	LF	1500
682-9950	DIRECTIONAL BORE, 7 IN	LF	500
937-1000	VIDEO CAMERA SENSOR ASSEMBLY - ITERIS	EA	4
937-8010	TESTING - VIDEO DETECTION SYSTEM	LUMP	-
937-8510	TRAINING - VIDEO DETECTION SYSTEM	LUMP	-



12" SER C



D3-1 (#2) 162" X24" WHITE ON GREEN 12" SER C



D3-1 (#3) 162"X24' WHITE ON GREEN *I REQUIRED* 12" SER C

NOTE:

I. CONTRACTOR TO COORDINATE WITH HYBRID CABINET VENDOR TO DETERMINE DETECTION INPUT ASSIGNMENTS

REVISION DATES SIGNAL PLANS JOHNS CREEK PARKWAY AT TECHNOLOGY CIRCLE Engineering, Planning, and Environmental Consultants Suite 450, 2 Sun Court Peachtree Corners, Georgia 30092 DRAWING No. ACKCHECKEL 27-002

